

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

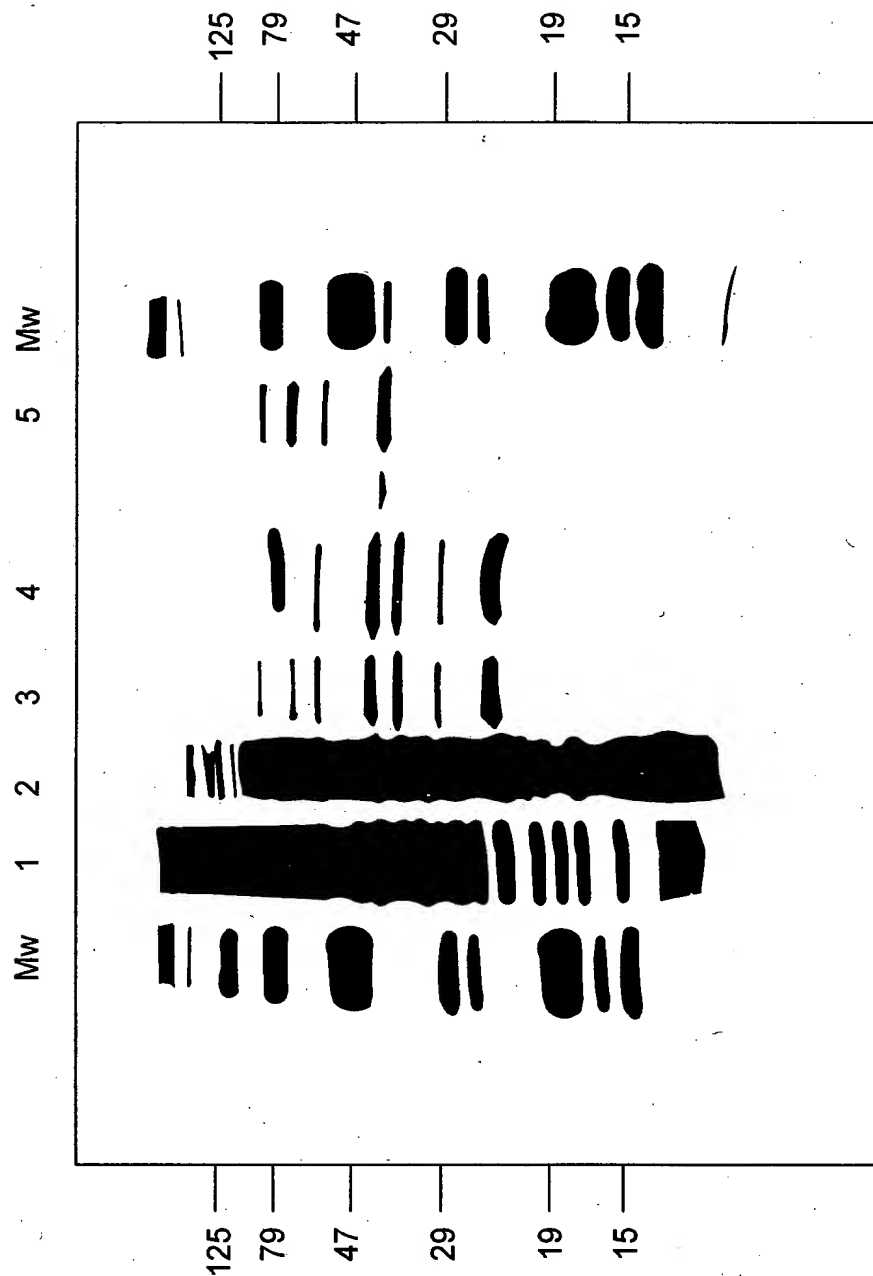
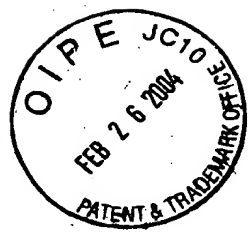


FIG.1

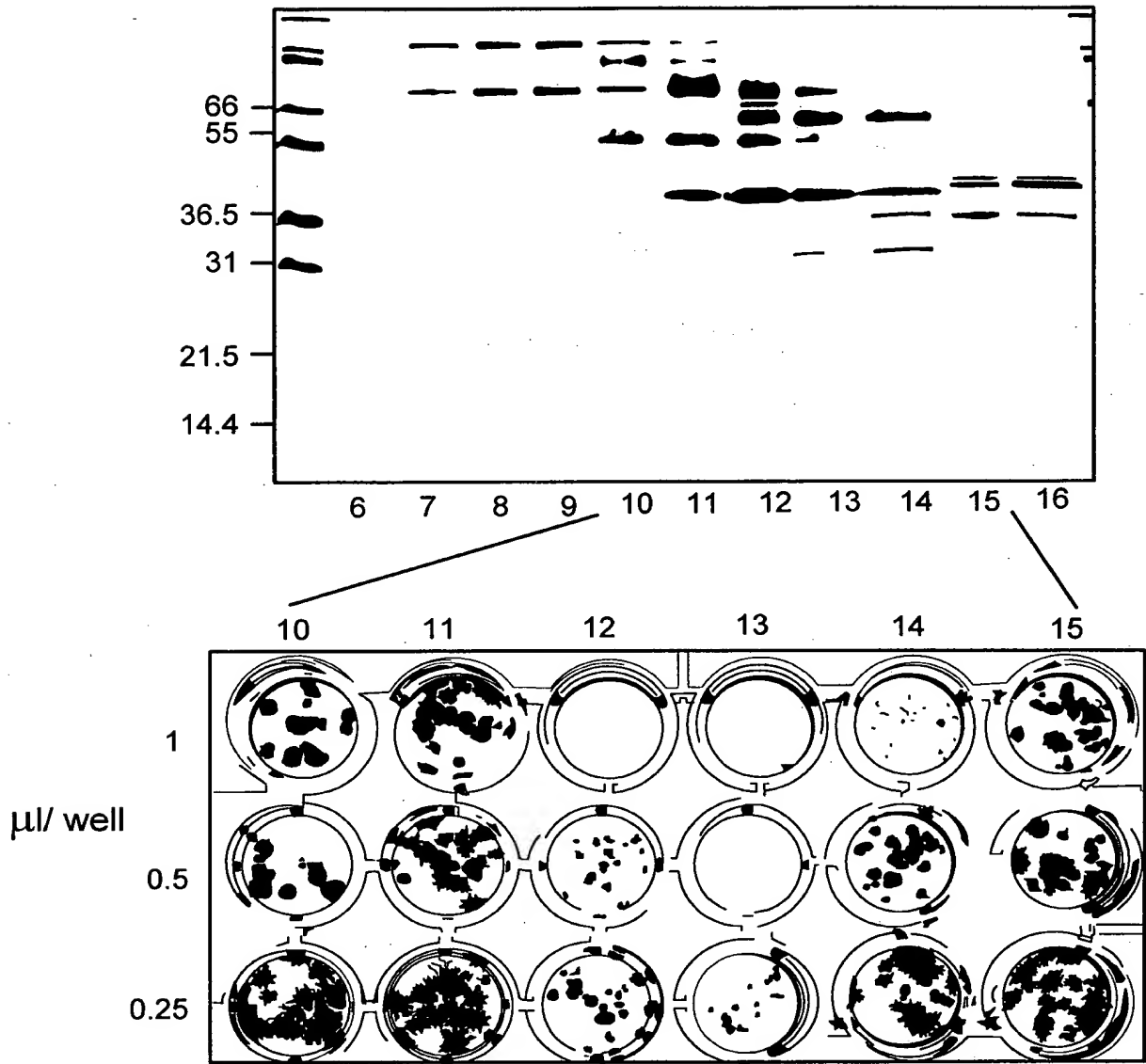
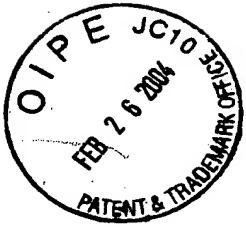


FIG. 2A

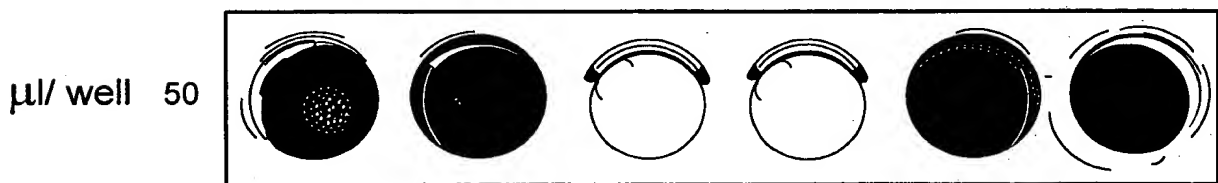


FIG. 2B

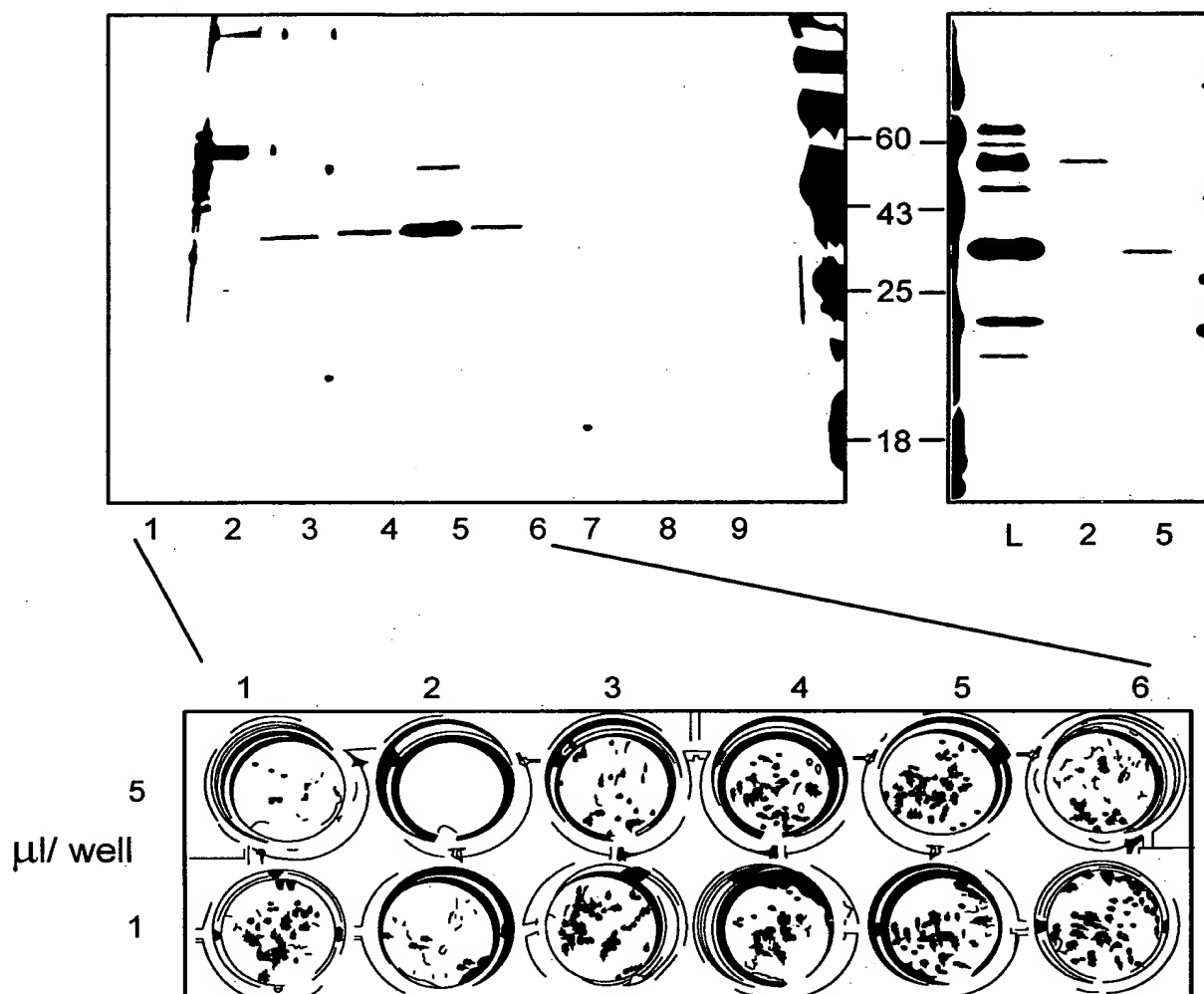
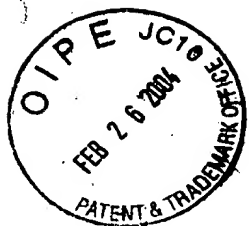
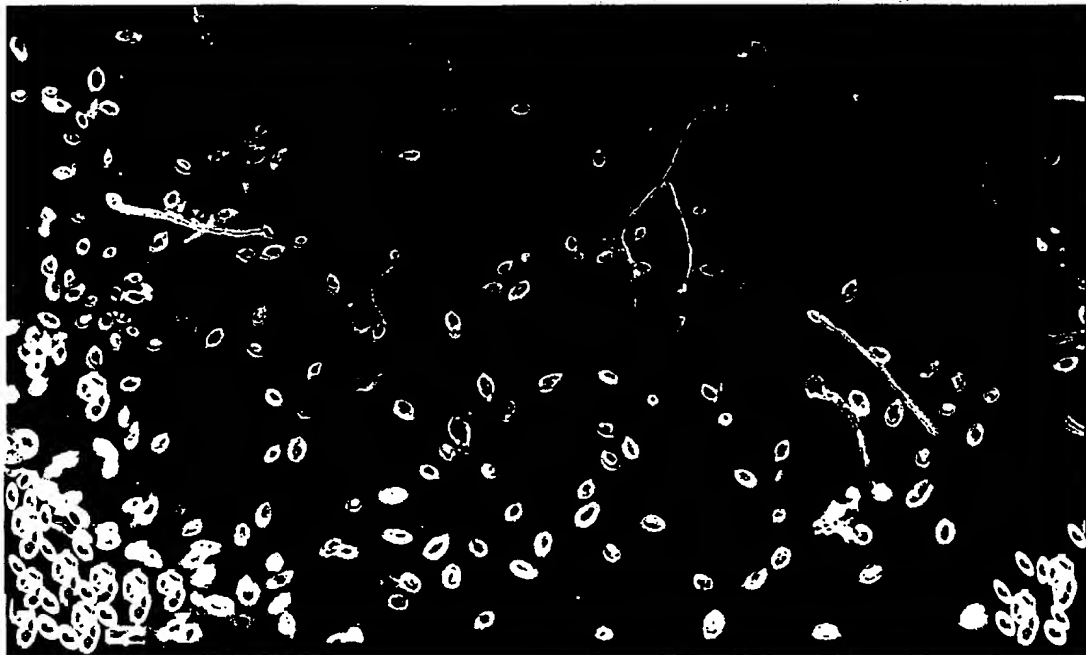
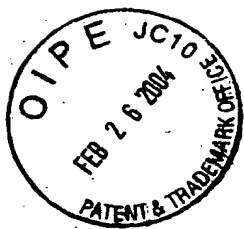
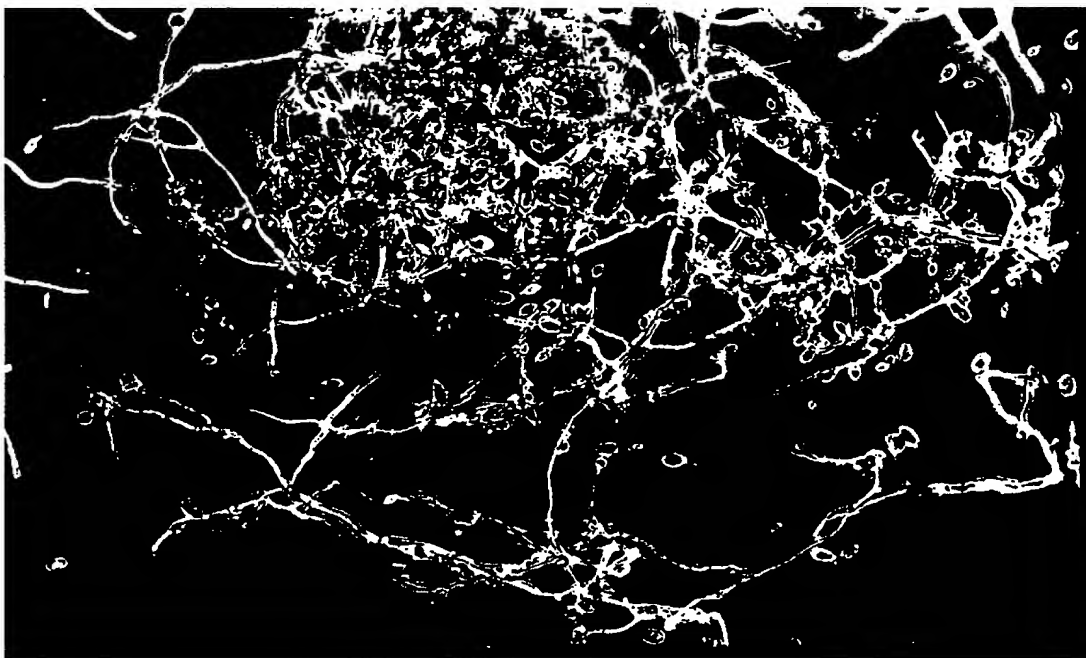


FIG. 3



RIGHT



LEFT

FIG. 4



RIGHT



LEFT

FIG. 5

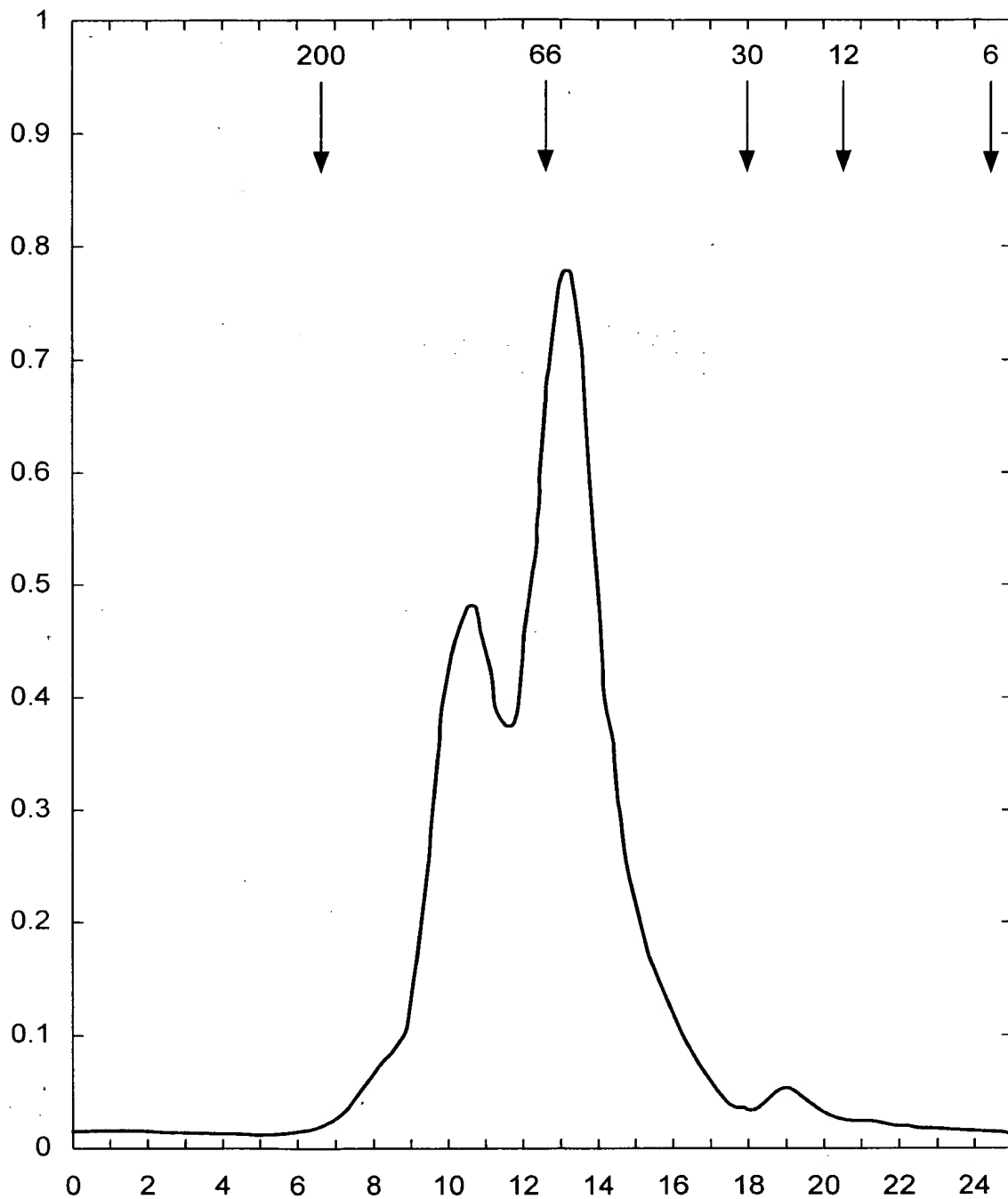
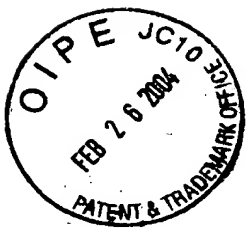


FIG. 6A

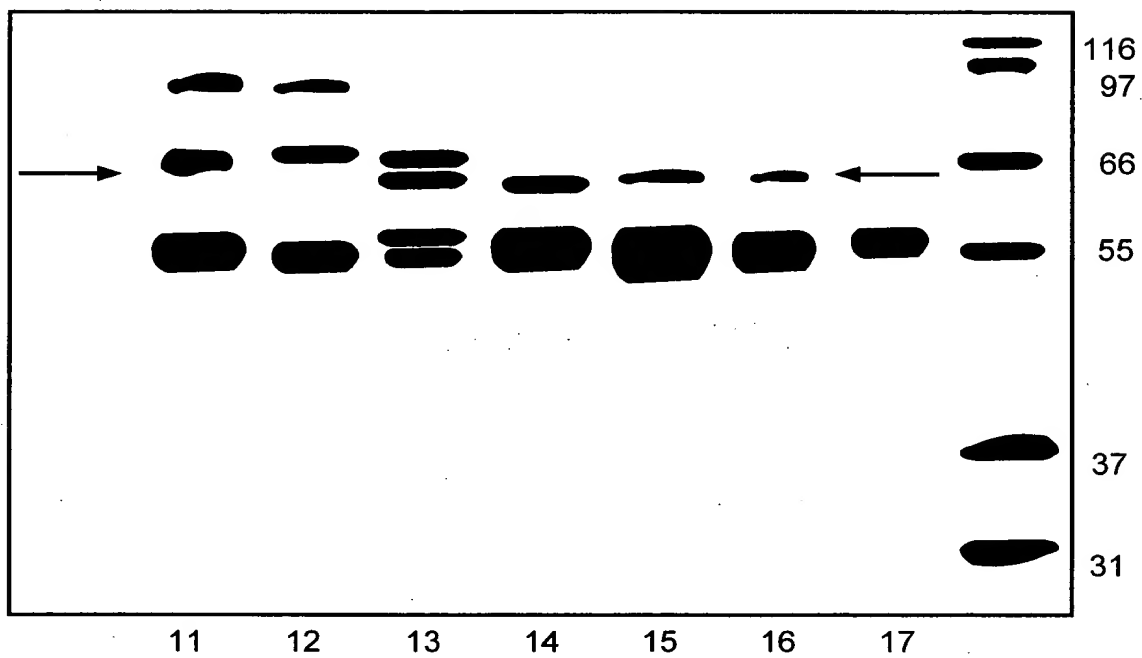
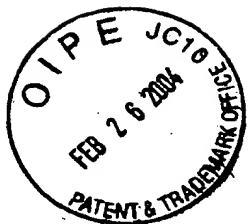


FIG. 6B

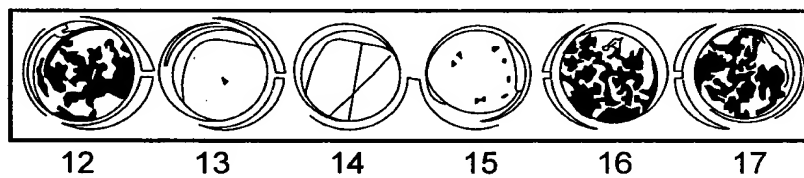


FIG. 6C

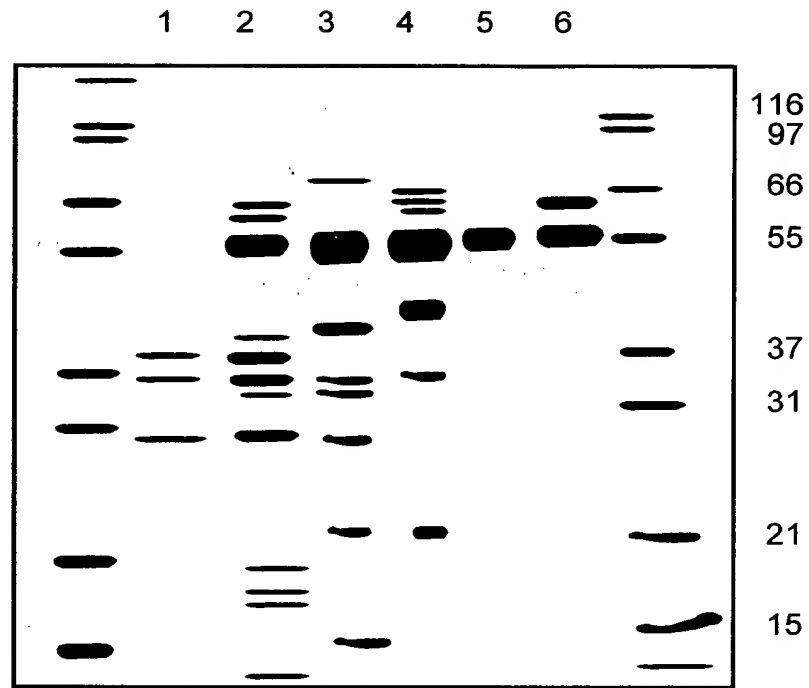
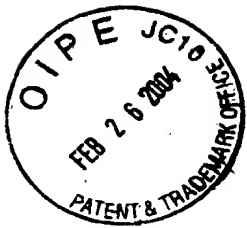


FIG. 7

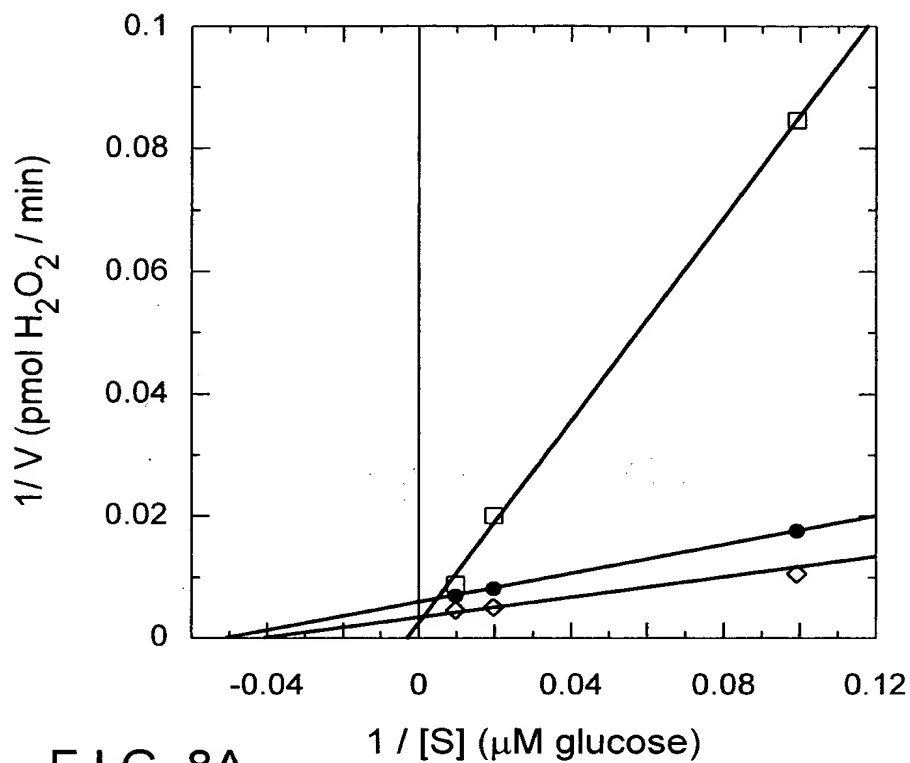
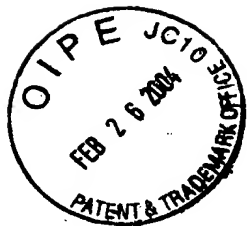


FIG. 8A

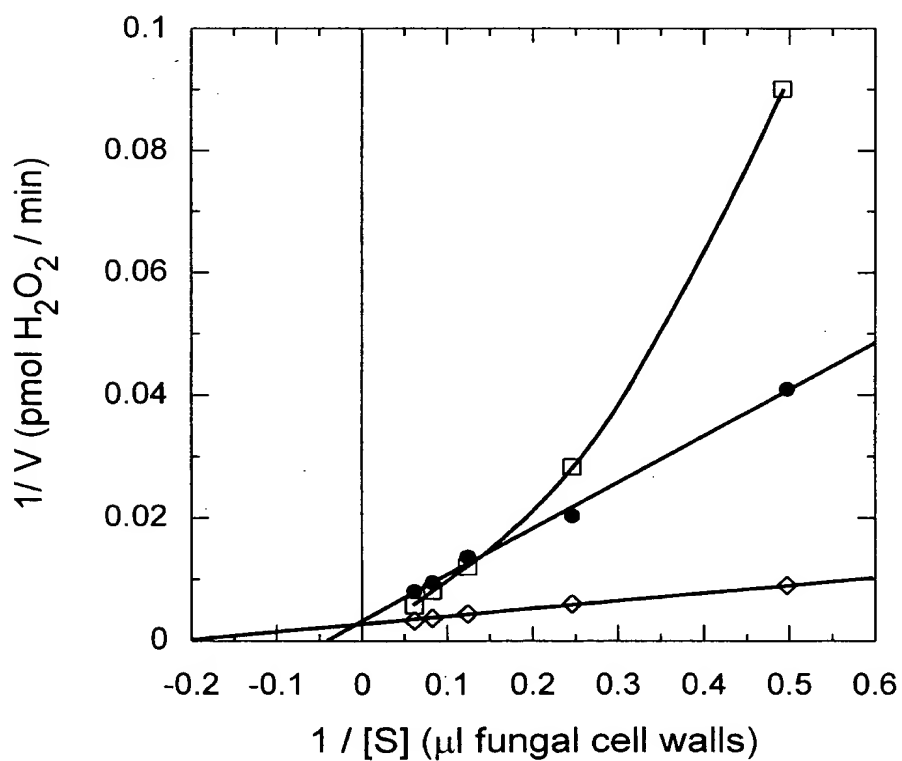


FIG. 8B

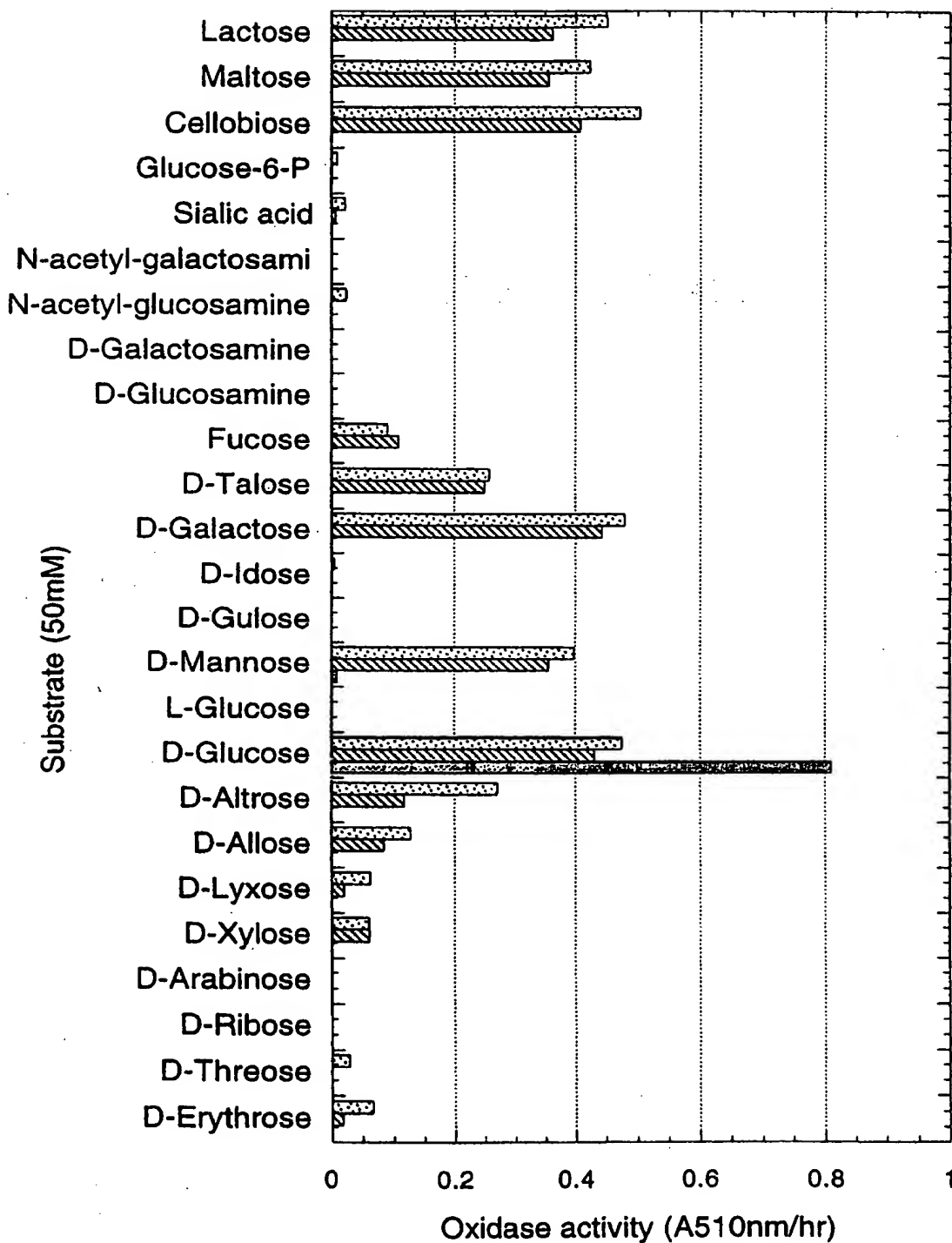


FIG. 9



MS59	1	-----MQTSILTLQLLLLSSTQSSATSRSTID-RFIQCLHEDRADPSEFP
WL64	1	MAITYSFNFKSYHFPLLVLVLSSTHSSATSTSIID-RFTQCLNNRADPSEFP
At26	1	-----TSRRNSE-TFTQCLTSNSDPKHP
At27	1	-----SIQD-QEINCVRKRNTHVSEFP
EcBBE	1	-----MENKTPIFFSTISIFLSLLNCA LGG--ND--LLSCITFNGVRNH-
PsBBE	1	-----MMCRSLTLRFFLFIVL-LQTCVRGGDVNDNLLSSCLNSHGVHNF-

MS59	42	ITGEVYTPGN--SSFPTVLQNYIRNLRFNETTTPKPFLLIITA EHVSHIQ A
WL64	50	LSGQLYTPDN--SSFPSVLOQYIRNLRFNESTTPKPIILLIT ALHPSHIQ A
At26	23	ISPAIFFSGN--GSYSSVLOQANIRNLRFNTTSTPKPFLLIIAATHESHVQ A
At27	20	LEKTLFTEPAKNVSLFNQVLESTAQNLOFLAKSMKPKPGFIFRPIHQSQVQ A
EcBBE	40	--TVFSADSD--SDENRFLHLSIQNPLFQNSLISKPSAILLP GSKEELSN
PsBBE	44	--TTLSSTD TN--SDYFKLLHASMQNPLEAKPTVSKPSFIVMP GSKEELSS

MS59	90	AVVCGKQNRLLKTRSGGHDYEGLSYLTNTNQ PFFIVDMFNLR SINVDIE
WL64	98	AVVCAKTHRLLMKTRSGGHDYEGLSYVTNSNQ PFFVDMFNLR SINVSIE
At26	71	AITCGKRHNLOMKIRSGGHDYDGLSYVTYSGK PFEVLDMFNLR SVDVDVA
At27	70	SIICSKKLG IHRVRSGGHDEALSYVSRIEK PFIILLDL SKLKQINVDIE
EcBBE	86	TIRCI RKGSWTIRLRSGGHSYEGLSYTSDT--PEILIDLMLNLRVSIDLE
PsBBE	90	TVHCCTRESWTIRLRSGGHSYEGLSYTADT--PEVIVDMMLNLRISIDVL

MS59	140	QETAWVQAGATLGEVYYRIA EKS NKHGFPAGV CPTVG VGGHFSGGGYGNL
WL64	148	DETAWVQAGATLGEVYYRIA EKS NSHAF PAGV CPTVG VGGHFSGGGYGNL
At26	121	SKTAWVQTGAILGEVYYRIEKS KTLAYPAGI CPTVG VGGHISGGGYGNM
At27	120	SNSAWVQPGATLGEVYYRIA EKS KIHGFPAGLCTEVCIGGYMTGGGYGTL
EcBBE	134	SETAWVESGATLGEVYYAITESSSKLGFTAGWCPTVG TGGHISGGGF GMM
PsBBE	138	SETAWVESGATLGEVYYAIAQSTDTLGFTAGWCPTVG SGGHISGGGF GMM

MS59	190	MRKYGLSVDNIVDAQIIDVNGKLLDRKSMGEDLFWAITGGGGVSFGVVLA
WL64	198	MGKYGLSVDNIVDAQIIDVNGKLLNRKSMGEDLFWAITGGGGVSFGVVLA
At26	171	MRKYGLTVDNTIDARMDVNGKILLDRKLMGEDLFWAINGGGGSGVGVLA
At27	170	MRKYGLAGDNVLDVKMYDVNGKLLDRAAMGEDLFWAIRGGGGA SFGIVLA
EcBBE	184	SRKYGLAADNVVDAILIDANGAILLDRQAMGEDVFWAIRGGGGGVWGAIYA
PsBBE	188	SRKYGLAADNVVDAILIDSNGAILLDREKMGDDVFWAIRGGGGGVWGAIYA

MS59	240	YKIKLVRVPEVVTVE TIERREEQNLS-TIAERWVQVADKLDRLDFLRMTF
WL64	248	YKIKLVRVPTTVTVENVORTSEQNLS-TIAHRWQVADKLDNDLFLRMTF
At26	221	YKINLVEVPENVTVFRISRTLEQNAT-DLIHRWQVAPKLPDELFIRTVI
At27	220	WKIKLVPVPKTVTVFTVTKLEQDARLKTISKWQQLSKIEEIHIRVVL
EcBBE	234	WKIKLLPVPEKVTVFRVTKNVAIDEATSL LHKWQFVAEELEEDF---TL
PsBBE	238	WKIKLLPVPEKLTVFRVTKNVGIEDASSL LHKWQYVADELEEDF---TV

MS59	289	SVINDTNG-GKTVRAIEFTLYLGNSRNLVTLNKD FPELGLQESDCTEMS
WL64	297	NVINNTNG-EKTI RGLFPTLYLGNS TALVALNKD FPELGLVEISDCTEMS
At26	270	DVVGNTVSSQKTVRTTEIAMFLGDTTTL SILLNRREFPELGLVRS DCTETS
At27	270	RAAGNDGN--KTVTMTYLGQFLGEGKTLKVM EKA FPELGLTQKDCTEMS
EcBBE	280	SVLGGADE--KQVWLTMLGFFHGLKTVAKSTFDLL FPELGLVEEDYLEMS
PsBBE	284	SVLGGVNG--NDAWLMFLGLHLGRKDAAKTIDEKEPELGLVDKEFOEMS

FIG. 10A



MS59	338	WVESVLYYTGFPSTPTTALLSRTP-QRLNPFKIKSDYVQNPI SKROFEF
WL64	346	WIESVLFYTNFPIGTPTTALLSRTP-QRLNPFKIKSDYVKNTISKQGFES
At26	320	WIQSVLFWTNIQVGSSETLLQRN--QPVNYLKRKSDYVREPI SRTGLES
At27	318	WIEAALFHGGFPTGSPIEILLQLKSPLGKDYFKATSDFVKEPIPVIGFKG
EcBBE	328	WGESFAYLAGLET--VSQLNNRFLKFDERAFKTKVDLTKEPLPSKAFYG
PsBBE	332	WGESMAFLSGLDT--ISELNNRFLKFDERAFKTKVDFTKVSVP LNVERH

MS59	1	FIFERLKELENQMLAFN PYGGRMSEISEFAK PFPHRSGNIAKIQYEVNWE
WL64	1	SIFERMKELENQMLAFN PYGGRMSEISEFAK PFPHRSGNIAKIQYEVNWD
At26	1	SIWKKMIELEIPTMAFN PYGGEMGRISS TVTFFPYRAGNLWKIQYGANWR
At27	1	GIEKRLIEGNTTFLNWT PYGGMMSKIPESAIPFPHRNGTLFKILYYANWL
EcBBE	1	GLLERLSKEPNGFIALNGFGGQMSKISSDFTTFFPHRSGTRLMVEYI VAWN
PsBBE	1	HALEMLS EQPGGEIALNGFGGKMSEISTDFTTFFPHRKGTKLMFEYI IAWN

MS59	51	DLSDAEANRYLNFTRLMYDYMTPEVSKNPRKAFLNYRDLDIG-INSHG--
WL64	51	ELGVEAANRYLNFTRVMYDYMTPEVSKNPREAFLNYRDLDIG-VNSHG--
At26	51	DET--LTDRYMELTRKLVOFMTPEVSKNPRQSFFNYRDYDLG-INSHNG-
At27	51	END-KTSSRKINWIKIYNYMAPYVSSNPRQAYVNYRDLDFG-QNKNN--
EcBBE	51	QSEQKKKTEFLDWLEKVYEFKPPFVSKNPRLG YVNHIDL DLGGIDWGNKT
PsBBE	51	QDEESKIGEFSEWLAKFYDYLEPFVSKPRVGYVNHIDL DLGGIDWRNK S

MS59	98	-RNAYTEGMV-YGHKYFKETNYKRLVSVKTKVDPDNFFRNEQSIPTLSS-
WL64	98	-KNAYTEGMV-YGHKYFKETNYKRLTMVKTRVDPDSNFFRNEQSIPTLSSS
At26	97	KISSYVEGKR-YGKKYFAG-NFERLVKI KTRVDSGNFFRNEQSIPVLP--
At27	97	AKVNFIEAKI-WGPKYFKG-NFDRLVKI KTKVDPENFFRHEQSIPPMFY-
EcBBE	101	VVNNAIEISRWSGESYFLS-NYERLIRAKTLIDPNNVFNHPQSIPPMANF
PsBBE	101	STTNAVEIARNWGERYFSS-NYERLVKAKTLIDPNNVFNHPQSIPPMMKF

MS59		-----
WL64	146	WK-----
At26		-----
At27		-----
EcBBE	150	D--YLEKTLGSDGGEVVI
PsBBE	150	EEIYMLKEL-----